

FIG. 1

FIG. 2A

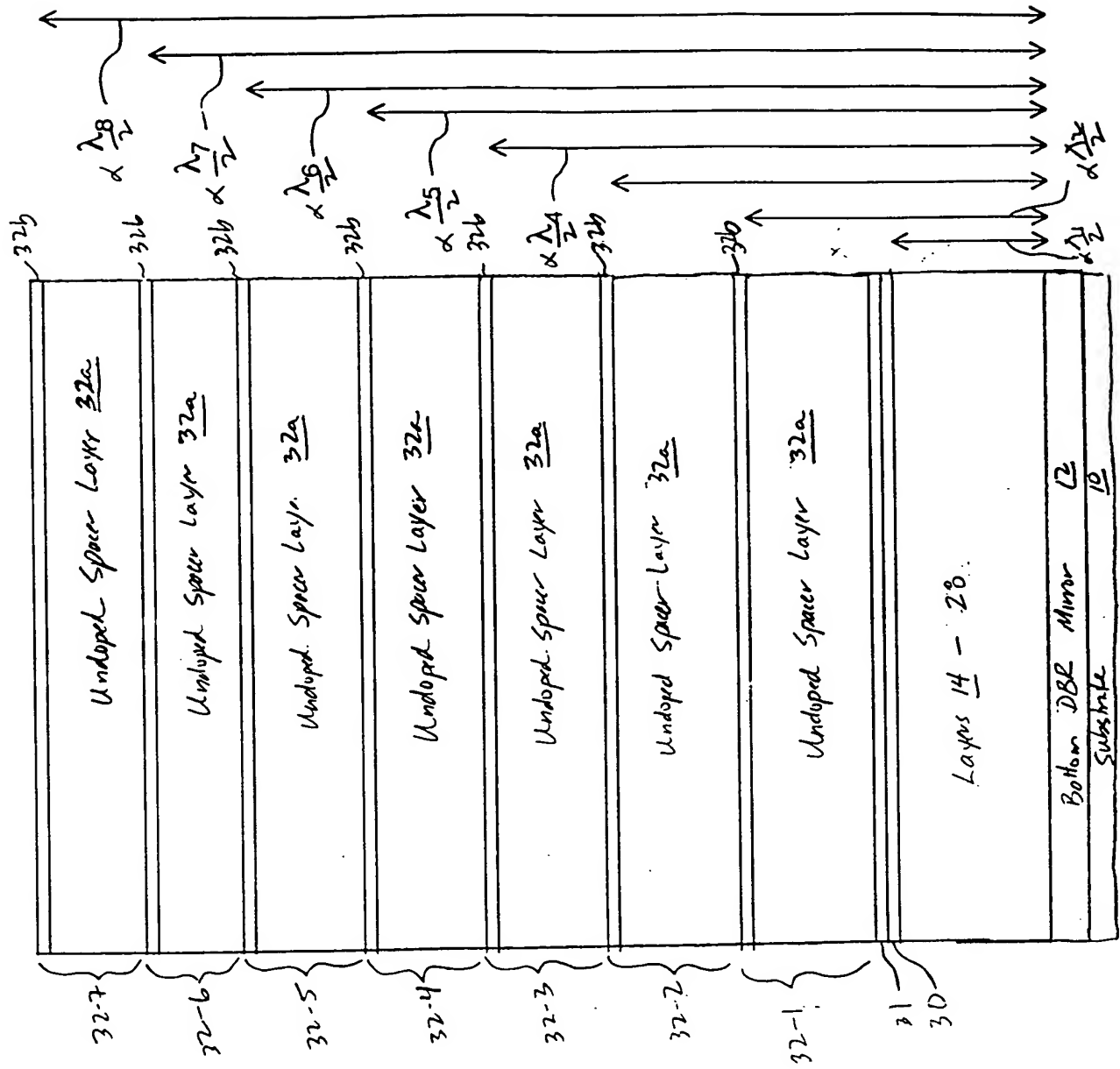


FIG 2B

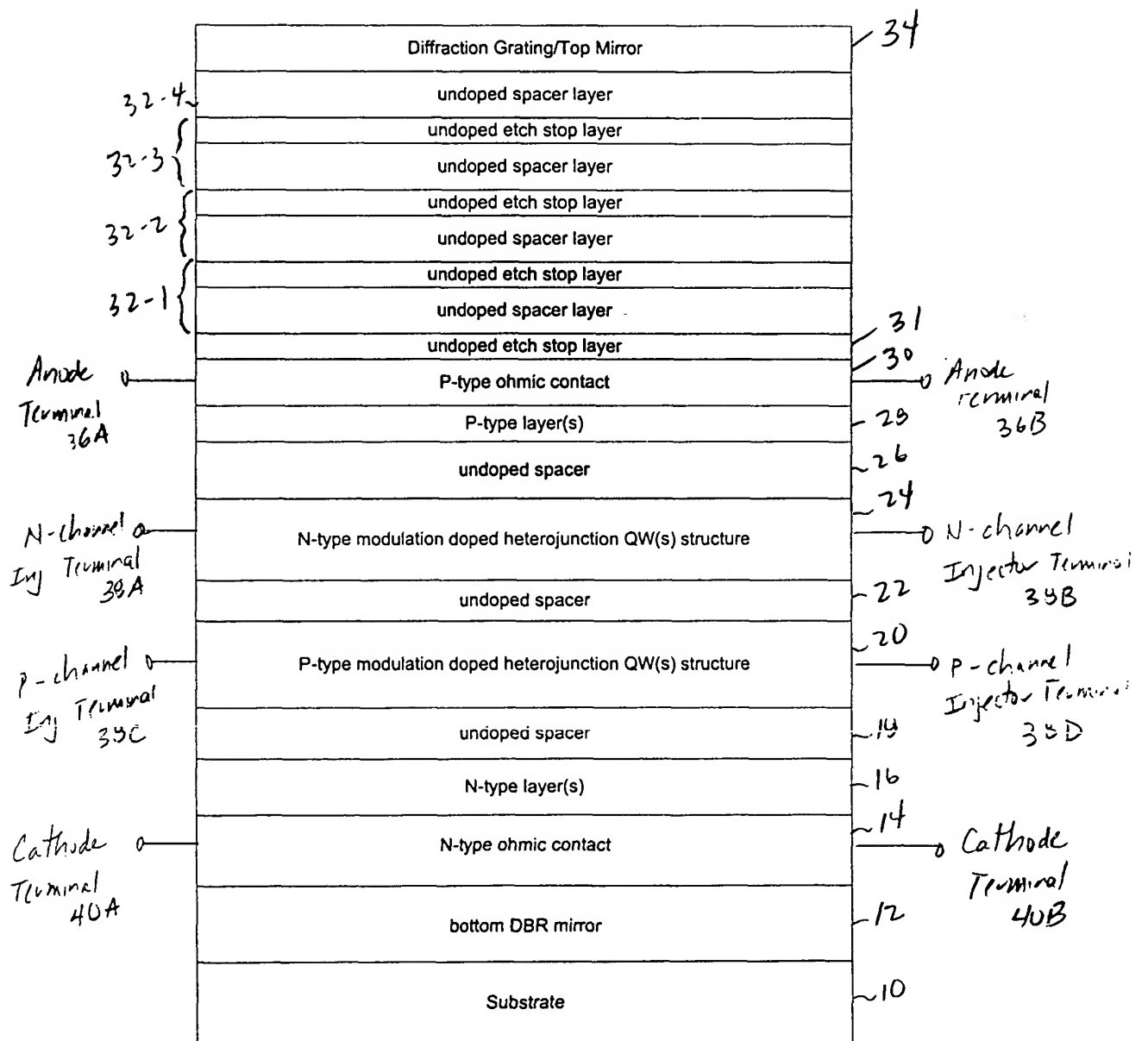
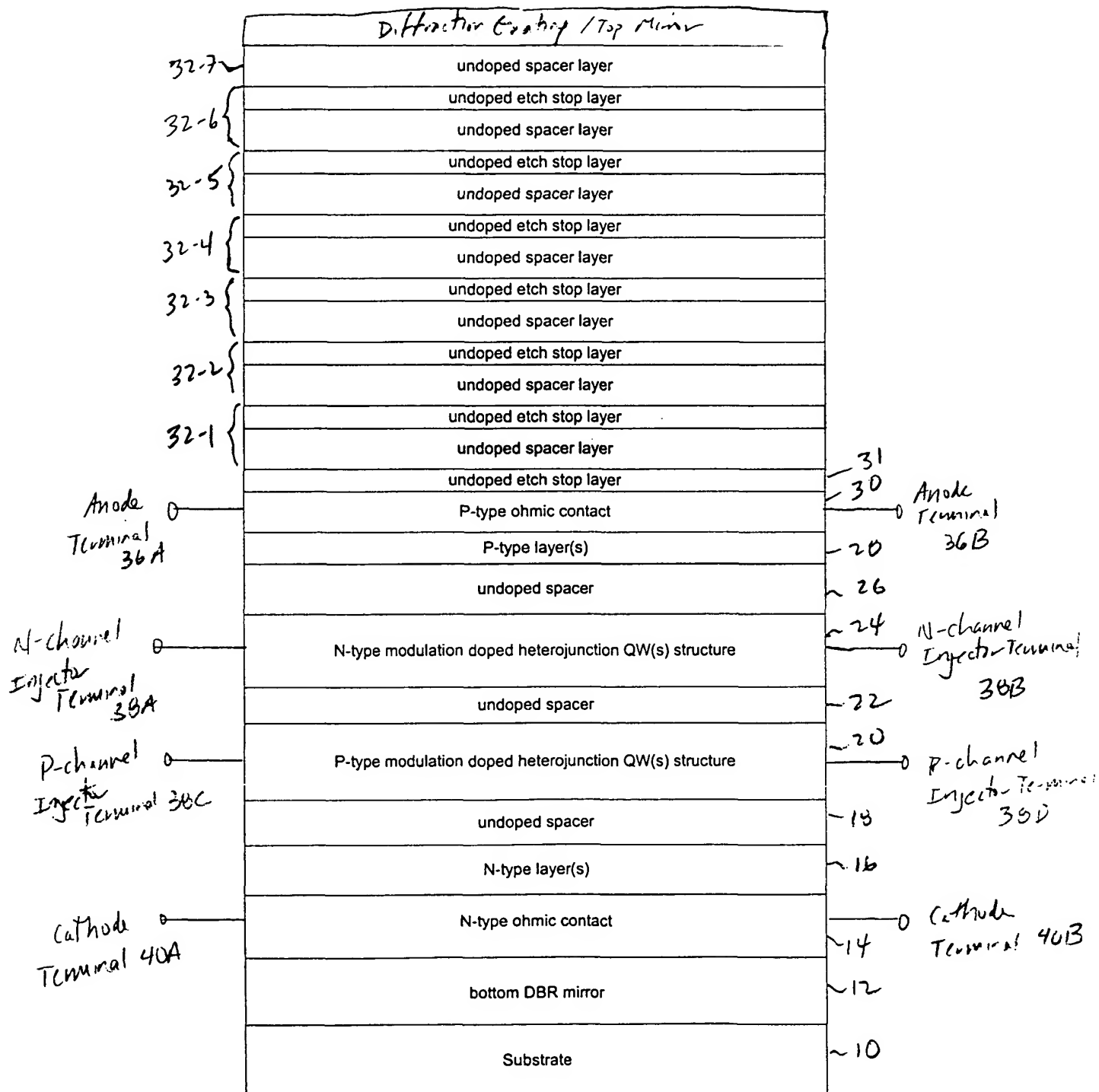


FIG. 2C



	Layer Material	Layer Doping Type	Typical Doping Concentration (atoms/cm ³)	Typical Layer Thickness (Å)	Layer #
32 {	AlAs	und	und		183b
	GaAs } x 7	und	und		183a
31 {	AlAs	und	und	40-100	182
30 {	InGaAs	P+	1E20	25	165b
	GaAs	P+	1E20	75	165a
28 {	Al(0.7)Ga(0.3)As	P	1E17	700	164b
	Al(0.7)Ga(0.3)As	P+	1E19	10	164a
	Al(.15)Ga(.85)As	P+	3.5E18	25	163d
26 {	Al(.15)Ga(.85)As	und	und	200 - 300	163c
	Al(.15)Ga(.85)As	N+	3.5E18	80	163b
	Al(.15)Ga(.85)As	und	und	20-30	163a
24 {	GaAs	und	und	15	162
	In(.20)Ga(.80)AsN	und	und	60	161
	GaAs } x 3	und	und	100	160b
	GaAs	und	und	100 - 250	160a
22 {	Al(.15)Ga(.85)As	und	und	5000	159
	GaAs	und	und	100	158
	In(.20)Ga(.80)AsN } x 3	und	und	60	157
20 {	GaAs	und	und	15	156
	Al(.15)Ga(.85)As	und	und	30	155d
	Al(.15)Ga(.85)As	P+	3.5E18	80	155c
18 {	Al(.15)Ga(.85)As	und	und	300	155b
16 {	Al(.15)Ga(.85)As	N+	3.5E18	80	155a
	Al(0.7)Ga(0.3)As	N	1E17	700	154
14 {	GaAs	N+	3.5E18	2200	153
	AlAs	und	und	1701	151
12 {	GaAs } x 7	und	und	696	152
	AlAs	und	und	1701	151
10 {	GaAs Substrate		Si		149

FIG. 3

FIG. 4A

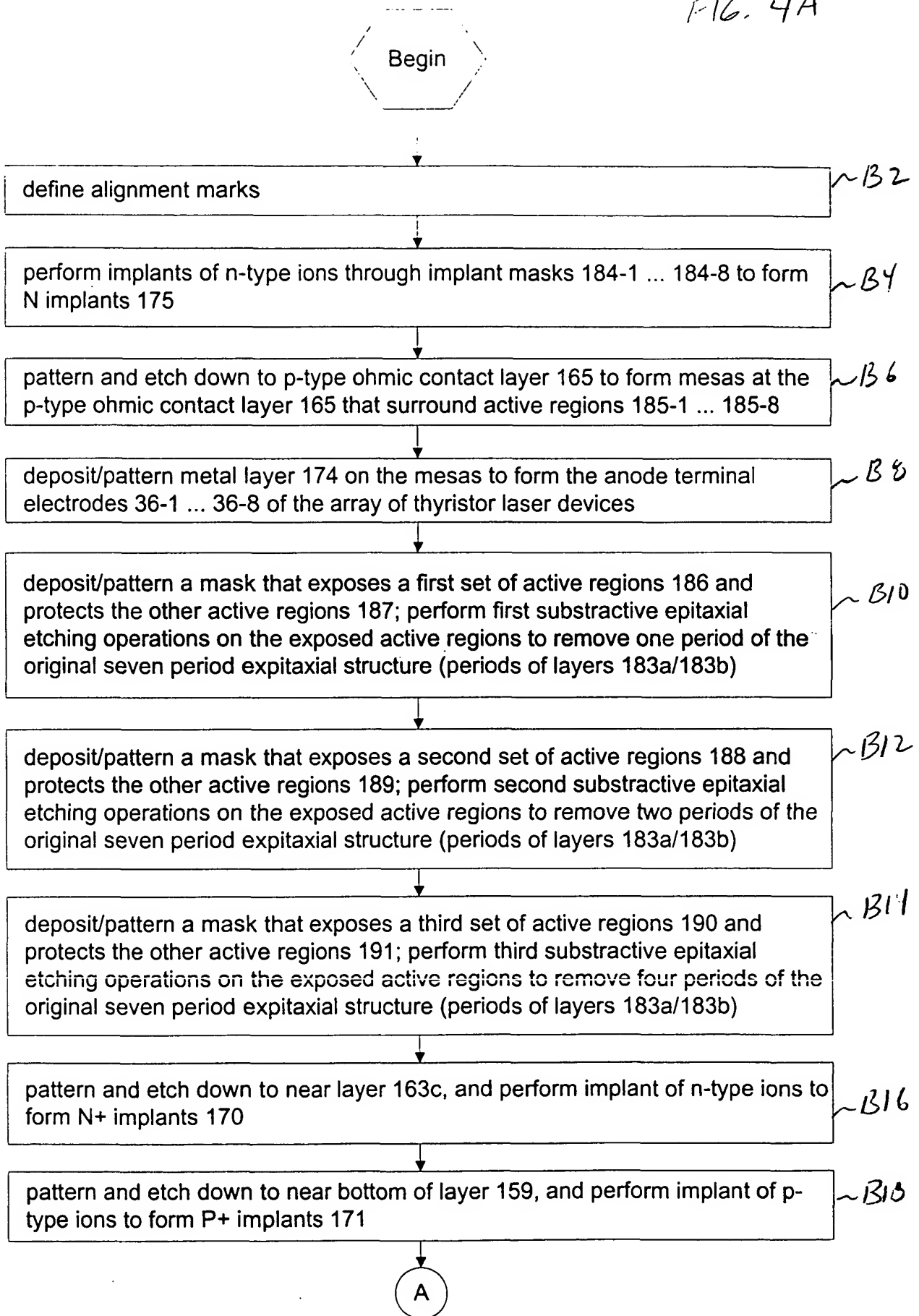
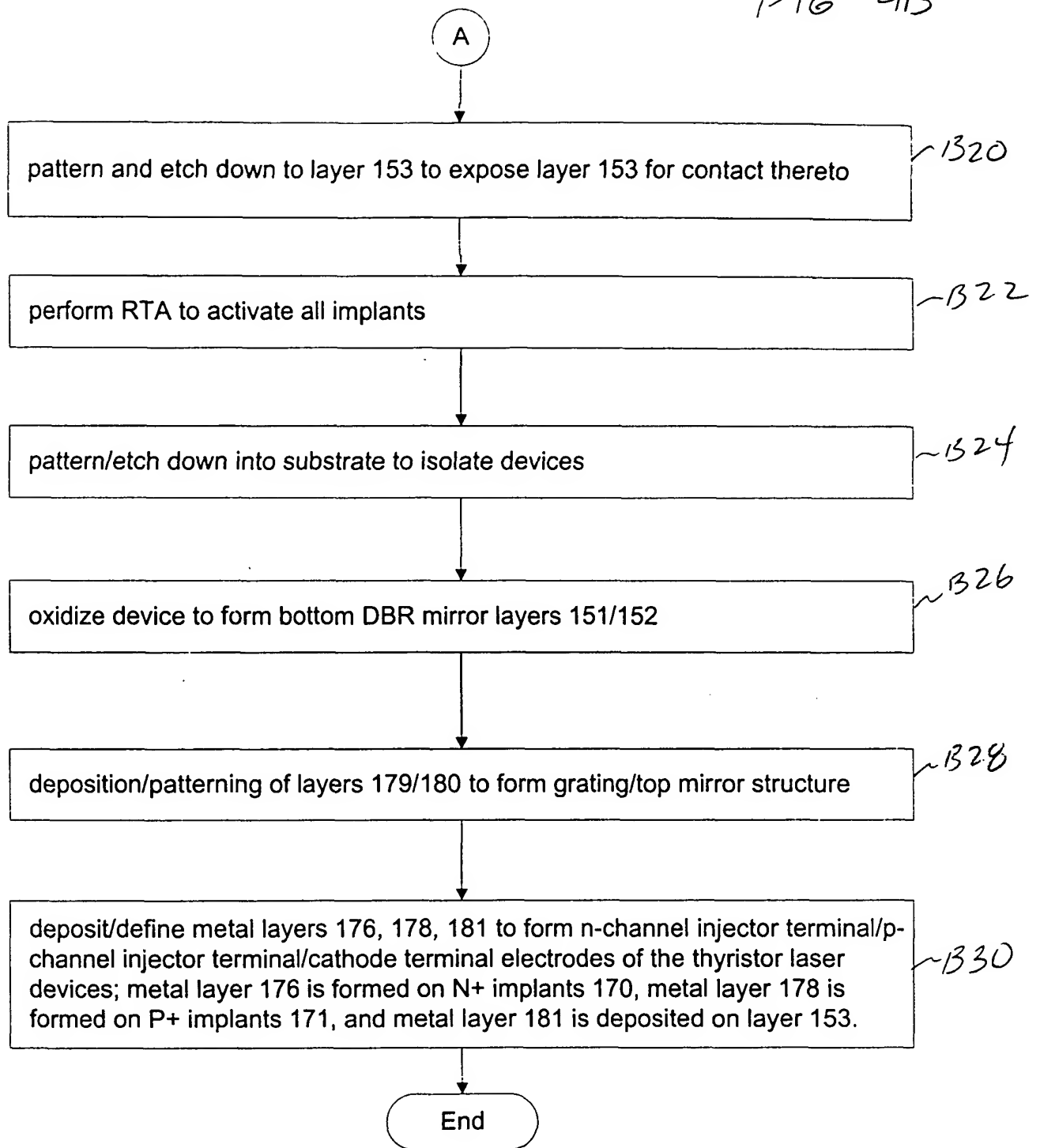


FIG 4B



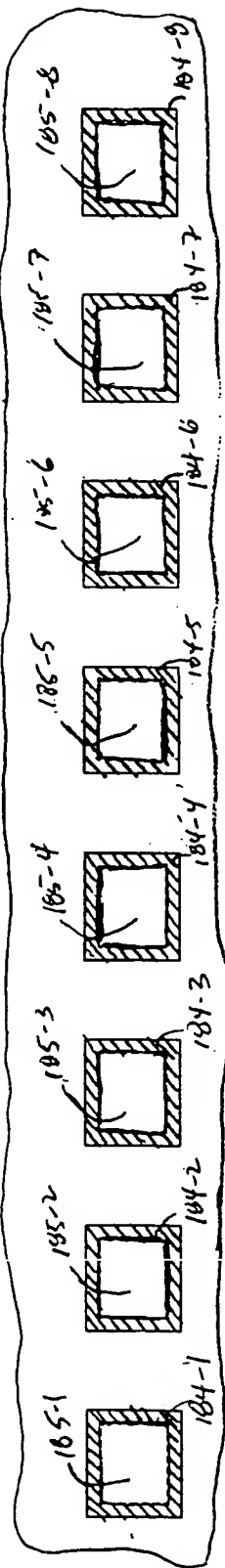


FIG. 5A

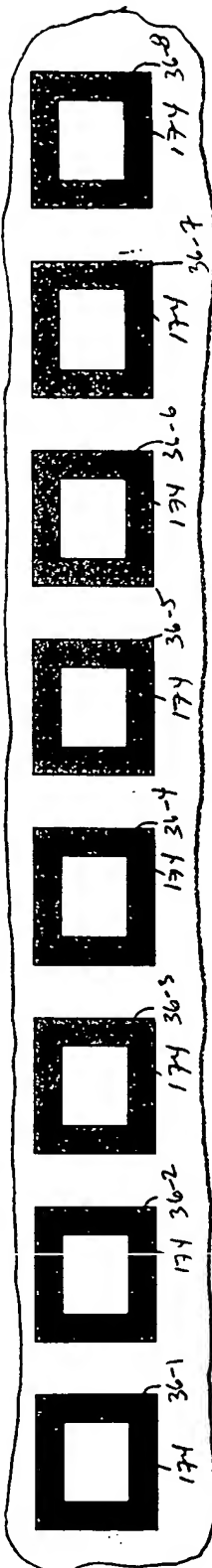


FIG. 5B

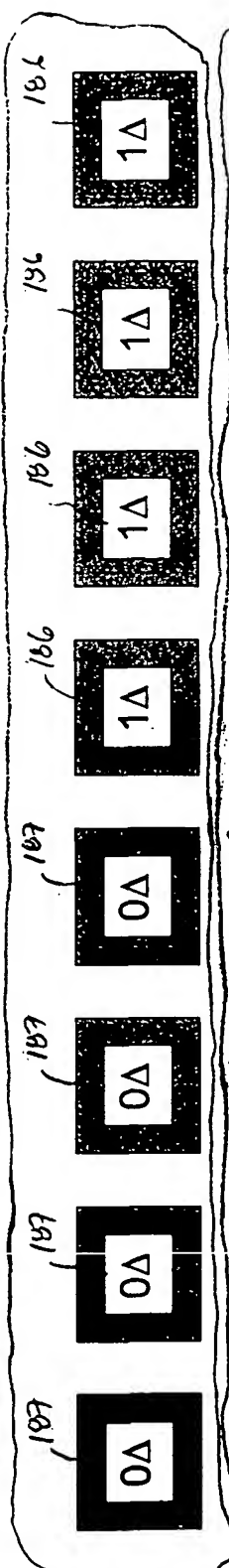


FIG. 5C

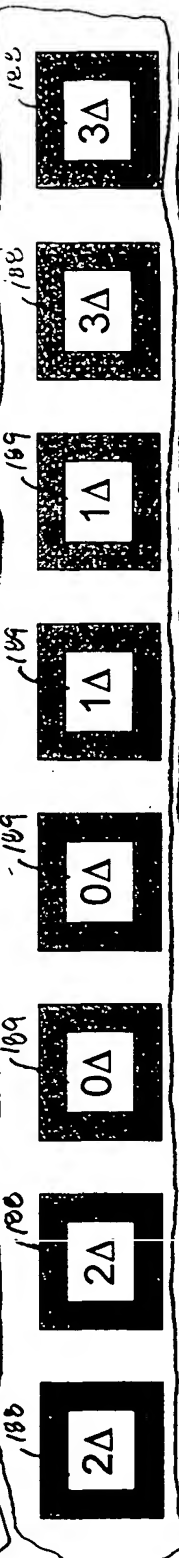


FIG. 5D

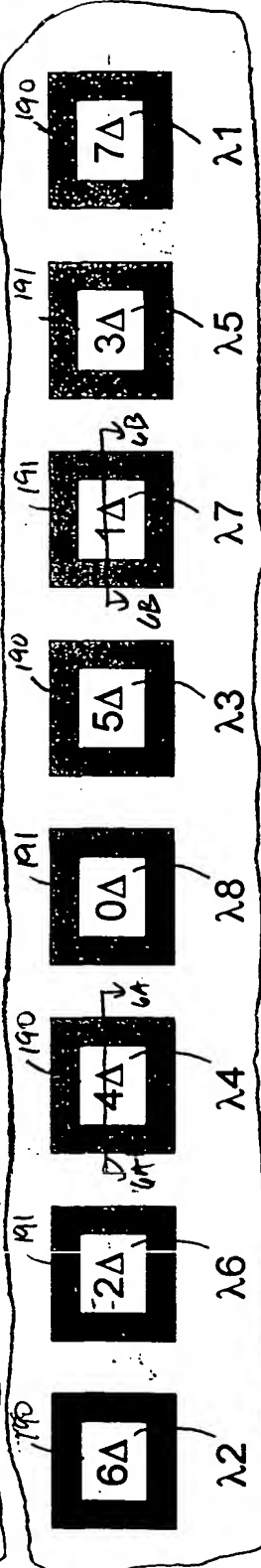


FIG. 5E

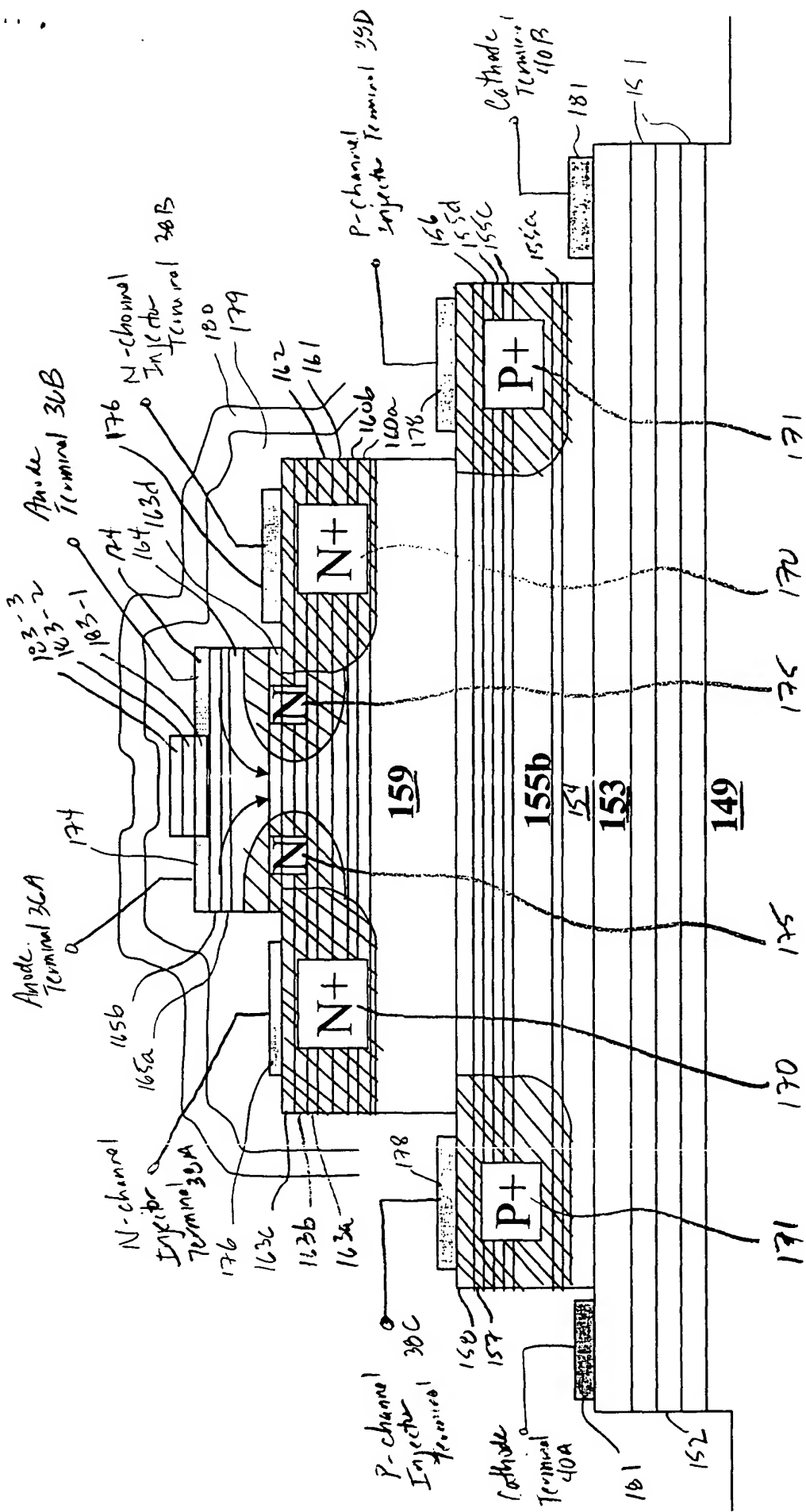


FIG. 6A

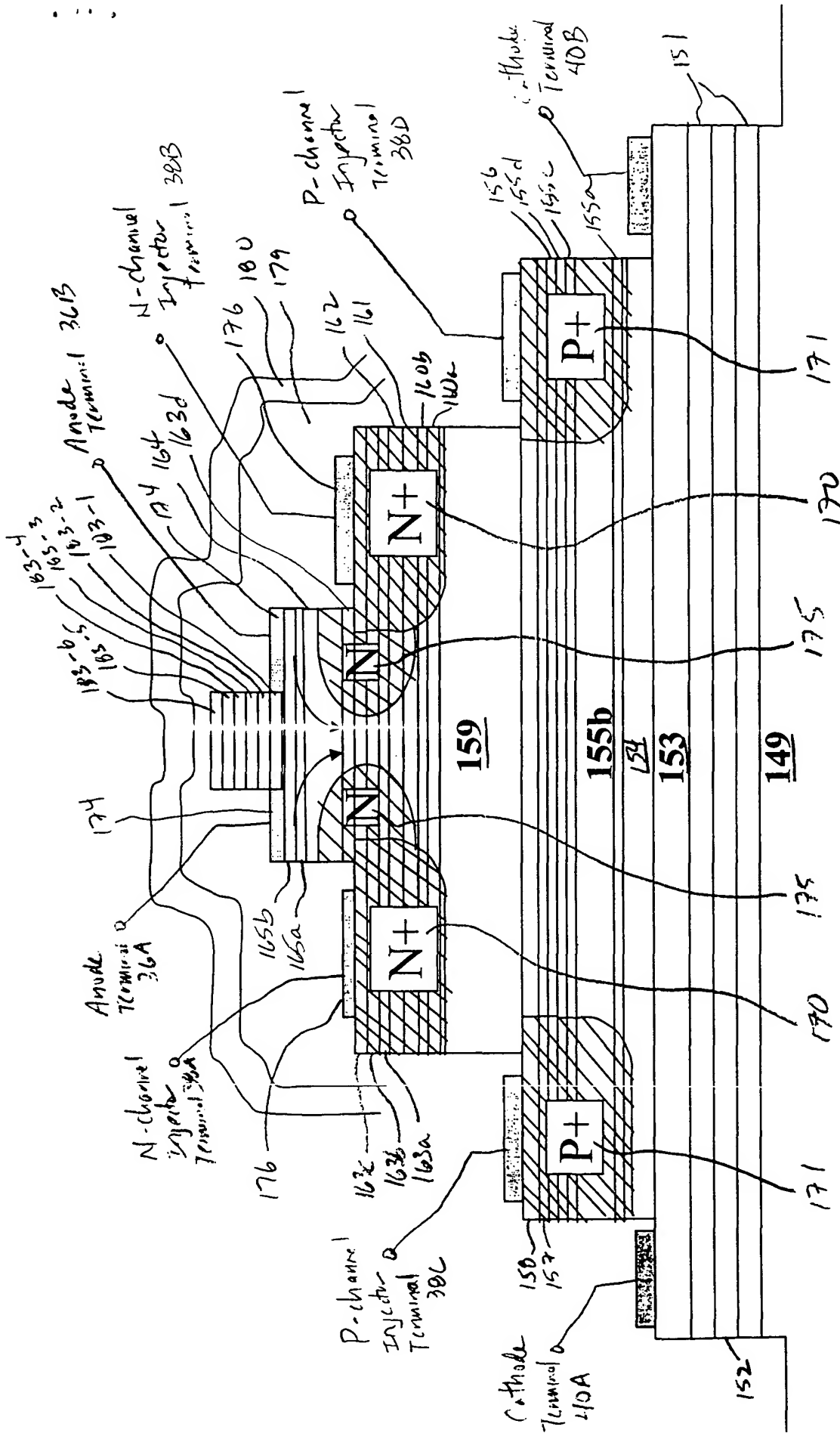


FIG. 6B

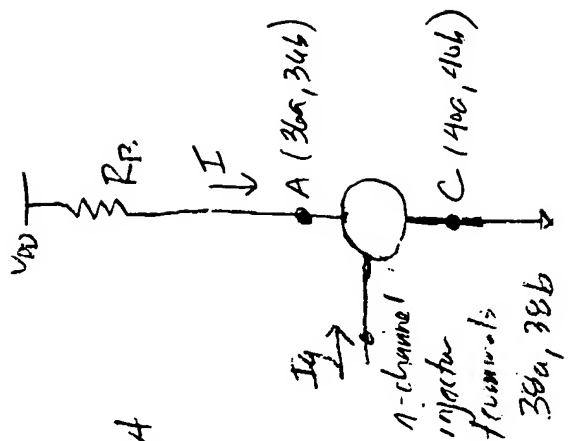


FIG. 7A

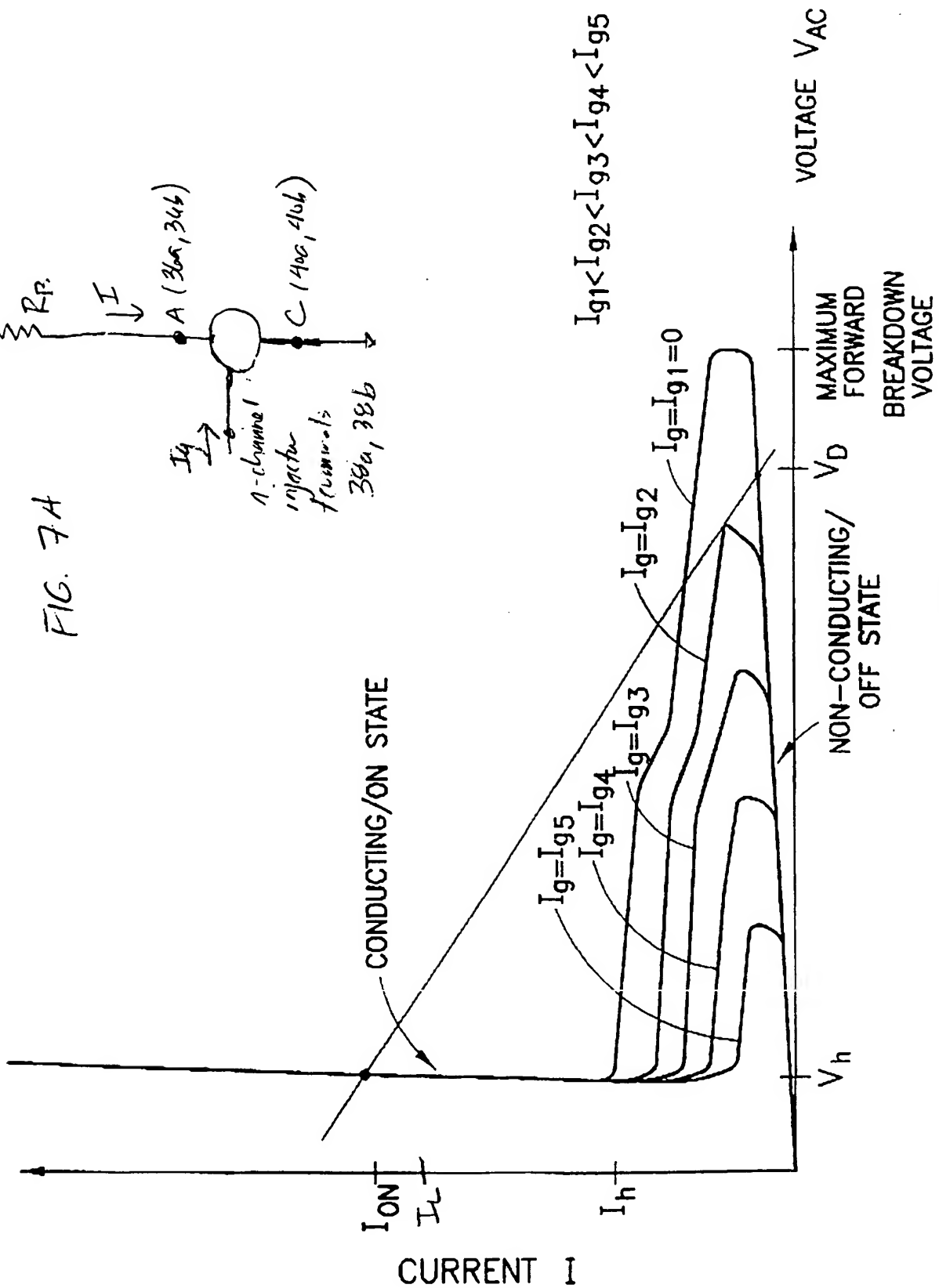


FIG. 7B